

Ying-hui Zhang

List of Publications by Year in descending order

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67
papers

2,489
citations

257450

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197818

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70
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70
docs citations

70
times ranked

3368
citing authors

#	ARTICLE	IF	CITATIONS
1	A Cu(I) metal-organic framework with 4-fold helical channels for sensing anions. <i>Chemical Science</i> , 2013, 4, 3678.	7.4	251
2	A Mixed Molecular Building Block Strategy for the Design of Nested Polyhedron Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 837-841.	13.8	189
3	Structure-modulated crystalline covalent organic frameworks as high-rate cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18621-18627.	10.3	188
4	MOF-Derived Porous Co_3O_4 Hollow Tetrahedra with Excellent Performance as Anode Materials for Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2015, 54, 8159-8161.	4.0	142
5	Fluorous Metal-Organic Frameworks with Enhanced Stability and High H_2/CO_2 Storage Capacities. <i>Scientific Reports</i> , 2013, 3, 3312.	3.3	136
6	Stable 2D Heteroporous Covalent Organic Frameworks for Efficient Ionic Conduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15742-15746.	13.8	121
7	Engineering Donor-Acceptor Heterostructure Metal-Organic Framework Crystals for Photonic Logic Computation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13890-13896.	13.8	108
8	A Water-Stable Metal-Organic Framework with a Double-Helical Structure for Fluorescent Sensing. <i>Inorganic Chemistry</i> , 2016, 55, 7326-7328.	4.0	83
9	Reinterpretation of metamorphic age of the Hengshan Complex, North China Craton. <i>Science Bulletin</i> , 2013, 58, 4300-4307.	1.7	77
10	A high-performance "sweeper" for toxic cationic herbicides: an anionic metal-organic framework with a tetrapodal cage. <i>Chemical Communications</i> , 2015, 51, 17439-17442.	4.1	72
11	DFT study on the influence of meso-phenyl substitution on the geometric, electronic structure and vibrational spectra of free base porphyrin. <i>Chemical Physics</i> , 2005, 315, 201-213.	1.9	70
12	Efficient Purification of Ethylene from C_2 Hydrocarbons with an $\text{C}_2\text{H}_6/\text{C}_2\text{H}_2$ -Selective Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 962-969.	8.0	69
13	Resonance Raman Spectra and Excited-State Structure of Aggregated Tetrakis(4-sulfonatophenyl)porphyrin Diacid. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3981-3988.	2.5	68
14	Microporous Metal-Organic Framework with a Completely Reversed Adsorption Relationship for C_2 Hydrocarbons at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6105-6111.	8.0	63
15	Temperature-Related Synthesis of Two Anionic Metal-Organic Frameworks with Distinct Performance in Organic Dye Adsorption. <i>Crystal Growth and Design</i> , 2016, 16, 5593-5597.	3.0	53
16	A new ditopic ratiometric receptor for detecting zinc and fluoride ions in living cells. <i>Analyst</i> , 2013, 138, 5486.	3.5	51
17	Bimetallic metal-organic framework derived Co_3O_4 - CoFe_2O_4 composites with different Fe/Co molar ratios as anode materials for lithium ion batteries. <i>Dalton Transactions</i> , 2017, 46, 15947-15953.	3.3	43
18	Tuning the adsorption and fluorescence properties of a metal-linked porous organic polymers through N-heterocyclic group decoration. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1724-1730.	2.3	42

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19	Propane-Trapping Ultramicroporous Metal-Organic Framework in the Low-Pressure Area toward the Purification of Propylene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35990-35996.	8.0	39
20	A covalent organic framework exhibiting amphiphilic selective adsorption toward ionic organic dyes tuned by pH value. <i>European Polymer Journal</i> , 2020, 133, 109764.	5.4	38
21	Benchmark selectivity <i>p</i> -xylene separation by a non-porous molecular solid through liquid or vapor extraction. <i>Chemical Science</i> , 2019, 10, 8850-8854.	7.4	29
22	Two-Dimensional Metal-Organic Framework with Ultrahigh Water Stability for Separation of Acetylene from Carbon Dioxide and Ethylene. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33429-33437.	8.0	29
23	Hollow porous organic polymer: High-performance adsorption for organic dye in aqueous solution. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1329-1337.	2.3	28
24	A new Co metal-organic framework with enhanced CO ₂ adsorption and separation performance. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1510-1515.	6.0	27
25	Structural parameters and vibrational spectra of a series of zinc meso-phenylporphyrins: A DFT and experimental study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 880-890.	3.9	25
26	A coordination compound featuring a supramolecular hydrogen-bonding network for proton conduction. <i>Chinese Chemical Letters</i> , 2018, 29, 336-338.	9.0	23
27	Engineering Donor-Acceptor Heterostructure Metal-Organic Framework Crystals for Photonic Logic Computation. <i>Angewandte Chemie</i> , 2019, 131, 14028-14034.	2.0	23
28	Stable 2D Heteroporous Covalent Organic Frameworks for Efficient Ionic Conduction. <i>Angewandte Chemie</i> , 2019, 131, 15889-15893.	2.0	22
29	Carbon Layer Coated Ni ₃ S ₂ /MoS ₂ Nanohybrids as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 5603-5609.	3.4	22
30	In-situ synthesized porphyrin polymer/TiO ₂ composites as high-performance Z-scheme photocatalysts for CO ₂ conversion. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 342-351.	9.4	21
31	A water-stable lanthanide-coordination polymer with free Lewis site for fluorescent sensing of Fe ³⁺ . <i>Chinese Chemical Letters</i> , 2019, 30, 75-78.	9.0	19
32	Ratiometric fluorescence detection of fluoride ion by indole-based receptor. <i>Talanta</i> , 2015, 131, 597-602.	5.5	18
33	High-performance fluorescence sensing of lanthanum ions (La ³⁺) by a polydentate pyridyl-based quinoxaline derivative. <i>Dalton Transactions</i> , 2016, 45, 10836-10841.	3.3	17
34	Synthesis, structure and magnetic properties of manganese(II) coordination polymer with azido and zwitterionic dicarboxylate ligand. <i>Chinese Chemical Letters</i> , 2014, 25, 854-858.	9.0	16
35	Edge-directed assembly of a 3D 2p ² -3d heterometallic metal-organic framework based on a cubic Co ₈ (TzDC) ₁₂ cage. <i>CrystEngComm</i> , 2013, 15, 9344.	2.6	15
36	A unique cage-in-cage metal-organic framework based on nested cages from interpenetrated networks. <i>CrystEngComm</i> , 2015, 17, 5884-5888.	2.6	15

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37	Improving the Stability and Gas Adsorption Performance of Acylamide Group Functionalized Zinc Metal-Organic Frameworks through Coordination Group Optimization. <i>Crystal Growth and Design</i> , 2017, 17, 2584-2588.	3.0	15
38	A triphenylene-based conjugated microporous polymer: construction, gas adsorption, and fluorescence detection properties. <i>RSC Advances</i> , 2015, 5, 15350-15353.	3.6	14
39	Sulfonated Hollow Covalent Organic Polymer: Highly Selective Adsorption toward Cationic Organic Dyes over Anionic Ones in Aqueous Solution. <i>Chinese Journal of Chemistry</i> , 2018, 36, 826-830.	4.9	14
40	A Hexanuclear Cadmium Metal-Organic Framework Exhibiting Dual Mechanisms to Trigger a Fluorescence-Quenching Response toward Iron(III) Ions. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1068-1072.	2.0	13
41	DFT study on the geometric, electronic structure and Raman spectra of 5,15-diphenylporphine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 83-91.	3.9	12
42	Improving the Performance of a Ternary Prussian Blue Analogue as Cathode of Lithium Battery via Annealing Treatment. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 289-293.	1.2	12
43	Theoretical study of electronic structure and absorption spectra of diacid and zinc species of series of meso-phenylporphyrins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1449-1460.	3.9	11
44	Syntheses, structures, luminescent and magnetic properties of two coordination polymers based on a flexible multidentate carboxylate ligand. <i>Chinese Chemical Letters</i> , 2015, 26, 499-503.	9.0	11
45	Topological modulation of metal-thiadiazole dicarboxylate coordination polymers through auxiliary ligand alteration. <i>CrystEngComm</i> , 2015, 17, 4301-4308.	2.6	10
46	A Sr ²⁺ -metal-organic framework with high chemical stability: synthesis, crystal structure and photoluminescence property. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160026.	3.4	10
47	A zinc(II) MOF based on secondary building units of infinite wavy-shaped chain exhibiting obvious luminescent sense effects. <i>Chinese Chemical Letters</i> , 2019, 30, 499-501.	9.0	10
48	Synergetic effect of hollowization and sulfonation on improving the photocatalytic performance of covalent porphyrin polymers in the reduction of CO ₂ . <i>Materials Chemistry Frontiers</i> , 2020, 4, 2754-2761.	5.9	10
49	Study on the Molecular Recognition of β -CD-ZnT(o-BocThr)APP toward Imidazole Derivatives and Amino Acid Esters. <i>Chinese Journal of Chemistry</i> , 2005, 23, 1381-1386.	4.9	9
50	Improving iodine adsorption performance of porous organic polymers by rational decoration with nitrogen heterocycle. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50054.	2.6	9
51	Crystalline State Solvent: Metal-Organic Frameworks as a Platform for Intercepting Aggregation-Induced Quenching. <i>Chinese Journal of Chemistry</i> , 2022, 40, 589-596.	4.9	9
52	Crystal Structure and Photoluminescence Properties of Two Barium(II) MOFs. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 700-704.	2.6	6
53	Cleanliness prediction of rusty iron in laser cleaning using convolutional neural networks. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	6
54	Experimental and theoretical study on vibrational spectra of nickel and zinc complexes of 5,10-diphenylporphyrin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 499-506.	3.9	5

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55	Modulated preparation and structural diversification of metal-organic frameworks based on 4,4'-bis(1H-imidazole-2,4,5-triyl)tripyrindine ligand. <i>Inorganica Chimica Acta</i> , 2015, 427, 240-247.	2.4	5
56	Four new metal-organic coordination polymers with non-coordinating biphenyl groups: Synthesis, characterization, magnetic and luminescent properties. <i>Inorganica Chimica Acta</i> , 2014, 411, 30-34.	2.4	4
57	A novel gene network analysis in liver tissues of diabetic rats in response to resistant starch treatment. <i>SpringerPlus</i> , 2015, 4, 110.	1.2	4
58	Amorphous N-rich organic polymer/carbon nanotube composites as effective anode material for advanced lithium ion batteries. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	4
59	Synthesis, spectral and theoretical studies on axial coordination of dinuclear Salen zinc(II) complexes. <i>Journal of Coordination Chemistry</i> , 2007, 60, 2485-2497.	2.2	3
60	A μ_3 -OH ⁻ bridged two-dimensional zinc(II) coordination polymer based on an anthryl ligand: Synthesis, characterization and luminescent properties. <i>Chinese Chemical Letters</i> , 2013, 24, 270-272.	9.0	3
61	Molecular Recognition of Porphyrin-Salen Compound towards N-Heterocyclic-guests. <i>Chinese Journal of Chemistry</i> , 2006, 24, 1031-1036.	4.9	2
62	A Manganese(II) Coordination Polymer with the Ligands Azide and Picolinate: Synthesis, Structure, and Magnetic Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1555-1558.	1.2	2
63	New Coordination Complexes Based on the 2,6-bis[1-(Phenylimino)ethyl] Pyridine Ligand: Effective Catalysts for the Synthesis of Propylene Carbonates from Carbon Dioxide and Epoxides. <i>Molecules</i> , 2018, 23, 2304.	3.8	2
64	A Sulfonated Porphyrin Polymer/P25m Composite for Highly Selective Photocatalytic Conversion of CO ₂ into CH ₄ . <i>Catalysis Letters</i> , 0, , 1.	2.6	2
65	Synthesis and Crystal Structure of Three Alkaline Earth Coordination Compounds Based on 1,2,5-Thiadiazole-3,4-Dicarboxylic Acid Ligand. <i>Journal of Chemical Crystallography</i> , 2014, 44, 443-449.	1.1	1
66	Innenrücktitelbild: Engineering Donor-Acceptor Heterostructure Metal-Organic Framework Crystals for Photonic Logic Computation (<i>Angew. Chem.</i> 39/2019). <i>Angewandte Chemie</i> , 2019, 131, 14135-14135.	2.0	1
67	Synthesis of chiral SalenZn(II) and its coordination with imidazole derivatives and amino acid ester derivatives. <i>Journal of Coordination Chemistry</i> , 2006, 59, 585-595.	2.2	0